

ASBESTOS



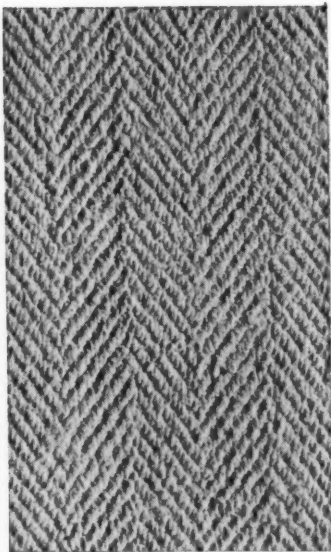
Plant—Sall Mountain Company, Hamilton, Ohio

MARCH 1955

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SALL MOUNTAIN CO.'S NEW WASTE TREATMENT PLANT

Sall Mountain Company, in keeping with its policy of expansion and modernization, has recently constructed and put into use a new mill waste treatment plant, being one of the first in the area to inaugurate such a program.



"Waste Treatment Plant"

This new operation not only curtails stream pollution, but conserves ground water at the plant's site. The problem of reclaiming fibres and purifying water was one requiring a long period of research and engineering. Today, this plant which was engineered from the first with allowances for further plant expansion, is operating smoothly, effecting important economies and fulfilling all requirements of the Water Pollution Control Act that was enacted by the Ohio State Legislature in 1951.

Prior to this installation, Sall Mountain Company, in common with other paper mills in this area, discharged waste waters from its asbestos machines directly into the Great Miami River. Mill wastes flowing to the river varied from 200 to 600 gallons per minute, the daily discharge being around one-half million gallons of water. Because of this water loss and the continual decline in available ground water in recent years, the company found it necessary continually to rejuvenate existing plant supply wells and install additional well capacity to provide the required process water. The new treatment plant clarifies the here-

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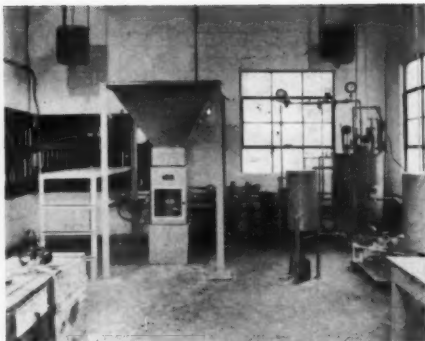
*Nature
made Asbestos...*

*Kearsey & Mattison
has been making it serve
mankind since 1873*



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tofore discharged water and recirculates 90 percent of the volume back into the plant's processes. Result of the water reclamation is the recovery and re-use of a considerable amount of asbestos fibre each day that was formerly



"Chemical Plant"

lost to the sewer discharge. At periods of paper machine stock change, reclaimed solids that cannot be employed on the paper machines are discharged in a slurry form to settling lagoons where the stock is de-watered and contained for future use in a semi-dry condition.

Gilbert Associates, Reading, Pa., have been consultants on this project for the past three years and were in charge of the design and installation of the treatment plant. The mechanical equipment was developed by Infilco Inc. The Vaughn Building Co., Hamilton, was the general contractor. The electrical circuit and control work was done by the Wentz Construction Co., Hamilton. The entire project was coordinated under the direction of R. D. Deininger, plant manager and engineer.

While rated as one of Hamilton's leading industries, Sall Mountain Company is probably not so well known by Hamilton people as a number of local plants. One reason for this is that the plant is not located on any main street or arterial highway, but in a peaceful valley in the village of Rockdale, seven miles north of Hamilton, Ohio. This property was acquired by Sall Mountain Company in 1913 from the American Strawboard Company. At that time, much of the power was generated by water wheels. The plant is located on the old Miami and Erie Canal, which in the early years provided not only power but trans-

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portation for strawboard and products. In 1943, this plant was completely destroyed by fire. It was completely rebuilt in record time on high priorities because of the necessity of its products in war demands. Today, it is considered to be one of the most modern plants of its type. Employment is given to approximately 125 people—the labor supply being drawn principally from Hamilton and Middletown, although the company maintains housing at Rockdale for a few employees. The machinery and equipment specially designed for handling asbestos fibres is highly versatile, producing sheets in thicknesses of ten thousandths to one hundred twenty-five thousandths. The daily capacity of the mill is sixty to eighty tons of asbestos paper and board. The principal raw material, asbestos fibres, is supplied from the company's own mines in the Province of Quebec, Canada.

In addition to the paper machine, the plant has fabricating, rewinding, corrugating and trimming equipment to produce a varied line of fire-proofing and insulating products. These products are sold through the Sall Mountain sales division, which covers the entire United States, under the trade name "Sal-Mo". The company is also engaged in producing various types of asbestos gaskets which are sold to the automotive, heating and appliance trades.

Most of the basic papermaking equipment was built and installed by the Black-Clawson Company, Hamilton, and its Shartle Bros. Division, Middletown.

Officers of the company are: Ladd L. Wilson, President; E. L. Deacon, Vice President; R. D. Deininger, Plant Manager; E. F. Stephan, Assistant Treasurer; Dwight H. Ruh, Sales Manager.

WHO MAKES IT — From time to time "ASBESTOS" receives inquiries asking for the manufacturers and suppliers of various asbestos materials.

Will our readers be kind enough to send us a list of the various materials they manufacture or handle and thus help us to keep our Reference File up-to-date.

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Continued product development and aggressive merchandising are two of the factors which contribute importantly to the ever-increasing acceptance of our wide line of asbestos products.

SALL MOUNTAIN COMPANY
HAMILTON, OHIO

MODERNIZING WASHINGTON UNDERGROUND

There have been a lot of changes in the capital since George Washington commissioned the French engineer, Pierre L'Enfant, to lay it out in the early 1790's. One of the latest major projects is a \$5 million, mile long underground tunnel that will house new utility systems from the Capitol power plant to government buildings around the city.

Some of the changes since L'Enfant last visited the site troubled the present contractors. Heavy and complicated street traffic conditions created problems of bridging tunnel cuts and decking the streets as well as supporting car tracks on busy intersections. Complex problems in relocating existing underground utilities also required some fancy footwork.

In order to get under a maze of utility connections in one section, the reinforced concrete tunnel had to be more than 43 feet below the surface grade. In another section, the main 10-foot square tunnel had to be reduced to 8 feet by 9 feet in order to jell with plans for a pedestrian tunnel which will be built from the Old Senate Office Building to the proposed new Senate Office Building.

When completed, the huge tunnel will house duplicate steam lines up to 16 inches in diameter, one 8-inch condensate return line, and two 30-inch chilled water lines. For economical operation, the steam lines are insulated with 85% Magnesia, and the chilled water lines are covered with Armstrong Cork Covering.

The pipe lines are carried on steel beams securely anchored to the 14- to 16-inch-thick concrete walls, floor, and roof slab. Expansion joints at regular intervals compensate for stresses created by contraction and expansion of the large sized steam and refrigerant lines where the tunnel changes direction.

With the exception of several access openings, most

Carey **ASBESTOS**

Since 1873 Carey has been manufacturing products of which asbestos is an integral part.

And Carey research is constantly working to make those products work better and to develop new products which will utilize the outstanding qualities of asbestos.

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CINCINNATI 15, OHIO

In Canada: The Philip Carey Co., Ltd., 277 Duke Street, Montreal 3, P. Q.

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Page 9

of the work is concealed from pedestrian traffic. Yet the big tunnel, which is large enough to pass a sizable truck, is a significant milestone in the capital renovation program.

(From Armstrong Insulator, Lancaster, Pa.,
February 1955.)

GRAND CENTRAL - IT FLOATS

Famous Terminal and Buildings, New York City, rest on
Vibration Mats Using J-M Asbestos Millboard.

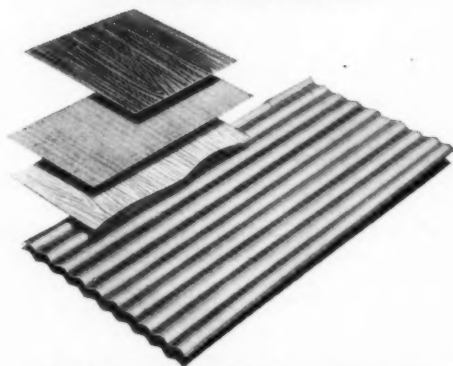
Two keen-eyed J-M men returning from lunch stumbled across this story which is old enough to be new for most of the men in the company. Particularly in view of the current rumors that the Grand Central Terminal may be replaced with a new modern structure. George P. Walker and Don L. Hinmon had their curiosity aroused by the way buildings in the area are isolated from the street structure at the ground level. One purpose of such construction is to prevent vibrations in the street from being transmitted to the building.

The matter of vibration spurred further curiosity. How are the vibrations of the railroad dampened so that buildings over the New York Central Railroad tracks will not be damaged? Investigation and some digging turned up the facts. An old J-M blueprint made in 1929 was found which shows how Grand Central Terminal and other buildings in that immediate area are protected from vibration with the help of a J-M product. It may be said that certain of the buildings "float" on vibration mats of Johns-Manville Asbestos Millboard sandwiched between alternate sheets of lead and iron.

Americans probably carry more insurance than any other people, with life insurance policy holders numbering more than 90 million, according to the Chamber of Commerce of the United States.

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FROST CLOSURE OF ROOF VENTS IN PLUMBING SYSTEMS

In the northern part of the United States and in Canada, plumbing system roof vents sometimes become partially or completely closed by frost accumulations during very cold weather. Various practical expedients for preventing this phenomenon have been tried, some of which have been successful. For example, some plumbing codes specify a 4 in. minimum diameter for the exposed portion of a roof vent. However, no scientific method for predicting the extent of frost closure under given conditions appears to have been developed until H. N. Eaton and R. S. Wyly of the National Bureau of Standards conducted an investigation of this problem. The study was sponsored in part by the Housing and Home Finance Agency.

The principal objection to frost closure is the effect created by excessive reduction of the cross section of the roof vent. When this happens, air flow into the vent cannot completely replace the air that is carried down the drainage stack and out of the plumbing system when water is discharged from the fixtures. If the roof vent is nearly or completely closed, the discharge of a single water closet will often suffice to siphon the water seals from one or more fixture traps on the system, thereby making it possible for sewer atmosphere to enter the rooms of the building in which the plumbing system is located.

Frost closure occurs naturally in two forms: (1) A cylindrical layer of frost on the inside of the exposed portion of the vent pipe extending above the roof, and (2) a frost cap at the top of the vent. The two forms may occur simultaneously.

The moisture that produces the frost layer or frost cap comes from the stream of warm moist air that ordinarily flows upward through the drainage stack and roof vent in cold weather as a result of chimney action. The column of warm air inside the stack and vent weighs less



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In Canada:
Mundet Cork & Insulation, Ltd.,
35 Beeth Ave., Toronto

than a similar column of cold air outdoors; thus the air inside the system rises except when plumbing fixtures are being discharged, at which time the direction of air flow is temporarily reversed.

The exposed part of the roof vent is chilled by the outside air. Hence, as the current of warm moist air rises through the vent, this air is cooled enough so that part of its moisture condenses. Some of the droplets of condensed moisture are carried out of the vent with the air stream while others strike the wall, where they freeze if the temperature of the inner surface of the vent is below the freezing point of water. Thus the water that freezes on the wall of the vent builds up a layer of frost or ice that increases in thickness as long as the temperature of its inner surface remains below 32°F.

Because the temperature of the air stream in the roof vent is higher than that of the outside air, heat flows radially outward from the vent. According to the NBS study, this transfer takes place in four distinct steps: (1) From the air stream in the vent to the ice-air surface; (2) from the ice-air surface through the ice layer to the inner wall of the vent; (3) through the wall of the vent; (4) from the outer wall of the vent to the atmosphere. An analysis of this process of heat transfer indicates that the heat liberated by the freezing of the water droplets must be taken into account. The velocity of the air stream in the vent and of the wind blowing across the roof must also be considered as well as the thickness and thermal conductivity of the ice layer and the vent. It has been commonly believed that if the weather is cold enough to initiate the process of frost closure in a vent of any diameter and that if these conditions persist for a sufficiently long period, the vent will become completely closed, but this is not always true. Actually, under some conditions a layer of ice or frost forms on the wall of the vent and increases in thickness up to a certain maximum value, depending on the diameter of the vent and on the rate at which heat is extracted from the air stream through the wall of the vent. This thickness may or may not be sufficient to close the vent.



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By applying the heat transfer analysis to a set of assumed conditions, it is possible to compute the temperature of the ice-air surface as the vent freezes. For a 4-in. metal vent, a wind velocity of 10 ft/sec across the roof, an air stream temperature in the vent of 60°F, and an outside air temperature of less than about 7°F, the vent will freeze solid, but for outside temperatures greater than about 7°F it will not. For example, if the outside temperature is 10°F, the computations indicate that freezing will stop when the diameter of the opening is reduced to about 0.63 of its original value, while for an outside air temperature of 20°F no reduction whatever will take place. Although the analysis indicates the controlling conditions and the extent of frost closure, it does not show the length of time required to close the vent opening to any particular size.

Frost closure has been produced experimentally in the Bureau laboratories. Roof vents of several different diameters were extended up into a chamber in which temperatures as low as -30°F were maintained, and warm moist air was blown up through the drainage stack and roof vent to simulate the conditions that cause frost closure in actual service. Periods in excess of 9 hours were generally required to close 1½-in. vents exposed to a temperature of -30°F, and increasing the diameter of the vent or decreasing the length of vent exposed to the low temperature increased the time required for effecting complete closure.

Recorded observations of frost closure under service conditions in Canada for 6 and 8-in. vents were found to agree rather closely with the predictions of the Bureau's analysis. The Canadian field data are limited in scope and some of the conditions which may have determined the results are not known; therefore these data probably do not provide a sound basis for judging the degree of accuracy of predictions made by theoretical means. However these data indicate that the method used in the analysis should give an approximation of the extent of frost closure in service under various conditions. The study also indicates the desirability of keeping the ex-

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tension of the vent above the roof as short as practicable, of increasing the diameter of the roof vent one or two sizes over the diameter of the stack, and of using insulating materials around the roof vent in areas where extremely cold weather may be expected.

For further technical information, see Frost closure of roof vents in plumbing systems, NBS Building Materials and Structures Report 142, available from the Superintendent of Documents, Government Printing Office, Washington, D.C. for 25 cents.

The British Industries Fair, the biggest national trade fair in the world, is scheduled for London and Birmingham, England from May 2 to 13.

Britain's recent spectacular industrial development will be reflected in exhibits by more than 1,800 of the country's leading manufacturers representing about 190 different industries. The overseas business man will be able to inspect a wide range of the products which have helped raise Britain's industrial production by nearly 50% in the past eight years.

For information write British Information Service, 30 Rockefeller Plaza, New York 20, N. Y.

More than ten times as many orders were written at the recent Heating and Air Conditioning Exposition in Philadelphia, than were received at any previous show, according to Chester S. Stackpole, general sales manager of the Union Asbestos & Rubber Company's Heating and Cooling Division.

Unarco's new Dual-Vecor, forced water, year-round air conditioner, "stole the show", and by the time the show closed they had received orders for over five thousand units and inquiries are now coming in from all over the United States.

"Human felicity is produced not so much by great pieces of good fortune that seldom happen, as by little advantages that occur every day." — *Benjamin Franklin*



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The **RUBEROID** Co.

ASPHALT AND ASBESTOS BUILDING MATERIALS

MARKET CONDITIONS

GENERAL BUSINESS.

General business is good and in many lines is continuing to improve at a most encouraging rate. Steel production rate is steadily rising and retail sales are at near record highs. Automobile production is high but sales are not keeping pace and dealers stocks are rising indicating that production will probably be curtailed in the near future. The labor front is quiet at the moment but it seems certain that starting this spring, we shall see some of the hardest bargaining in many years, as labor puts on its first serious drive for annual employment or wage guarantees for hourly workers.

In general it is felt business will continue good through the first half of this year but definite slackening is expected during the third and fourth quarters.

ASBESTOS — RAW MATERIAL.

Asbestos fibre shipments from Canada in 1954 were 924,000 tons versus 911,000 in 1953 or an increase of 1.4%.

December shipments at 71,000 tons, were up 10% from the year before.

The general feeling is that 1955 should equal or better 1954. Evidenced by fibre movement for the first six weeks of the new year, this optimistic forecast seems to be very well in line.

Production and demand has reached a point where practically all grades, including spinning, are in ample supply.

ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. The market is fair at present and continues to improve. Some government business has been responsible for the general improvement but most distributors are now placing small orders for stock which assists substantially. The wire industry is busy for this time of year.

Asbestos Brake Lining. The equipment and replacement market is very good at present and the outlook is

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Wool and Nylon Blend Fleece

Carefully Engineered

To Meet

Your Individual

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In

ASBESTOS CEMENT PRODUCTS

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STAFFORDVILLE, CONN. USA.

** Nylon Has Proved Itself Essential in Asbestos Cement Felts*

favorable for the balance of the year.

Asbestos Paper. The market situation remains competitive, there being little change manifested from previous months. It is anticipated that business should pick up during the year. The *Millboard* situation remains about the same but improvement is expected as the demand for products in which paper and millboard are used—i.e., automotive, electrical, and so forth—increases. At present production exceeds demand for *saturated paper*, but there is every reason to hope that demand will pick up after the first quarter.

Insulation. High Pressure. The demand for pipe covering is substantially poorer than it has been for many months. Block business goes forward at a fair rate. Releases for contract work have been very slow, and as a matter of fact, contract bookings have been at a very low ebb.

Insulation. Low Pressure. The low pressure market situation shows little change from last month, when distributors began to replenish inventories.

Asbestos Cement Products. The market for asbestos cement products remains about the same as it has been for the past several months.

The outlook for roofing and siding is encouraging as volume for the past two months shows an excellent increase as compared with the same period last year.

Production far exceeds demand for corrugated and flat.

Pressure and Sewer pipe sales appear on the upswing as spring approaches and other pipe sales are also increasing.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

Experts are predicting that our living standards will be doubled by 1975, in large part as the result of automatic machines.

SMITH & KANZLER CO.

Manufacturers of
ASBESTOS PAPER

Pipe Covering & Blocks

Air Cell

Wool Felt

Anti Sweat

Anti Freeze

Sponge Felt

Multi Ply

Established 1920

East Linden Ave., Linden, N.J.

BUILDING

The Dodge Reports total in January for contract awards for future construction in the 37 states east of the Rockies emphatically set a new all-time high for all Januarys in the 64-year history of F. W. Dodge Corporation.

The total of \$1,504,450,000 was 31 per cent ahead of the figure for January 1954 which set the all-time January high mark up to last month. Dodge's January total is watched with special interest each year because the projects reported will be in process of construction over the weeks and months ahead and represent firm commitments for the expenditure of enormous amounts of money. The January total a year ago foreshadowed 1954's record-breaking construction figures in both the Dodge and the government figures.

Commenting on the figures, Thomas S. Holden, vice chairman of Dodge, said:

"While it is true that the sharpest increase over January of last year was in awards for residential construction, there was also a substantial increase in non-residential building, which was up 19 per cent. This rise was accounted for by increases in commercial buildings, hospitals, churches, public buildings and social and recreational structures. Contracts for manufacturing buildings showed a drop below last year, while school buildings remained at about last year's level.

"The January figures also show the continuation of a trend which became pronounced last year in the residential field, emphasizing single-family homes. All of the 49 per cent increase in residential awards over January, 1954 was in single family structures. Two-family and multi-family structures showed a further drop.

Individual January classifications were: nonresidential, \$564,788,000, down 19 per cent from December but up 19 per cent over January 1954; residential, \$690,355,000, down 9 per cent from December but up 49 per cent over January 1954; heavy engineering, \$249,307,000, down 32 per cent from December but up 15 per cent from January 1954.

CANADIAN ASBESTOS



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Address Inquiries to:

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ASBESTOS FIBRE DIVISION

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BIRD SALESMEN TURN CUSTOMER IN 1955 CARAVAN SHOW PREVIEW

During their annual Sales meetings in January and February, the entire Bird & Son sales organization attended a lavish preview of the all-new 1955 Bird Caravan Show. In attending the Caravan presentation, which took several months to prepare, the Bird salesmen came "disguised" as a representation from the more than 30,000 builders, contractors, applicators, dealers, distributors and architects who will see the Bird Caravan Show during 1955. The Bird Caravan Show—exactly as seen by the Bird sales organization—takes to the road this month for Caravan meetings throughout the country. Six trucks carrying the Caravan properties will be out until late fall.

The Bird Representatives witnessed the biggest and most complete Caravan Roofing Show ever presented by Bird & Son. Upon arrival, each salesman stopped at the Caravan Voting booth to vote for the Bird Architect Shingle feature he thought most important. From the ballots, a prize winner was drawn at the end of the Caravan Show.

The Caravan meeting was conducted against the massive background of a large, colorful, and spotlighted display of Bird Architect and Master-Bilt Shingles. The salesmen viewed Bird's new, full-color Caravan movie, "The Big Difference", narrated by Lowell Thomas. The movie illustrates, by animation, the many features of the Bird Architect and Master-Bilt Shingles, and it describes the benefits of good application.

Following the movie, the Bird "customers" and "prospects" attended the Caravan's Roofing Clinic. Here, the 1955 marketing and sales potentials and problems were discussed.

CRITICISM is a universal plague none can escape — even by saying nothing, doing nothing, or being nothing.

A PHILANTHROPIST often gives away what he should be giving back.

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CANADIAN SPECIFICATIONS

The list of Canadian Specifications has been revised as of January 3, 1955 and a copy can be obtained from the Canadian Government Specifications Board, National Research Council, Ottawa, Canada, at 10c each, (except the Schedule of Methods of Sampling and Testing—Asbestos-Cement Products, which is 20c).

The following Asbestos materials are included in the list:

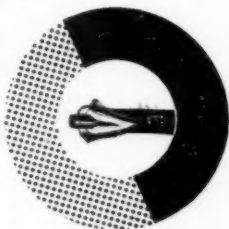
- 34-GP-8 Asbestos-Cement Conduit, Electrical
- 34-GP-11 Asbestos-Cement Pipe, Flue
- 34-GP-2 Asbestos-Cement Pipe, House Connection
- 34-GP-10 Asbestos-Cement Pipe, Industrial Vent
- 34-GP-1 Asbestos-Cement Pipe, Pressure
- 34-GP-9a Asbestos-Cement Pipe, Sewer
- 34-GP-7a Asbestos-Cement Products: Schedule of Methods of Sampling and Testing
- 34-GP-5 Asbestos-Cement Sheets, Corrugated
- 34-GP-13 Asbestos-Cement Sheets, Dielectric
- 34-GP-14 Asbestos-Cement Sheets, Flat, Decorative
- 34-GP-15 Asbestos-Cement Sheets, Flat, Flexible
- 34-GP-16 Asbestos-Cement Sheets, Fully-Compressed
- 34-GP-17 Asbestos-Cement Sheets, Flat, Semi-Compressed
- 34-GP-12 Asbestos-Cement Sheets, for Electrical Purposes
- 34-GP- 3 Asbestos-Cement Shingles, Roofing
- 34-GP- 4 Asbestos-Cement Shingles, Siding
- 51-GP- 1 Thermal Insulation (Amosite) for Piping, Machinery and boilers for Marine Use
- 51-GP- 2 Thermal Insulation (Calcium Silicate-Asbestos for Piping, Machinery and Boilers for Marine Use
- 51-GP- 3 Thermal Insulation (85% Magnesite) for Piping, Machinery and Boilers for Marine Use



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**For your most exacting
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Unibestos No. 750 pipe covering • Unibestos
No. 1200 pipe covering • Unibestos block •
Asbestos textiles • Asbestos packings •
Asbestos gaskets • Asbestos gasket cloth and
tape • Asbestos fiber • Insutape pipe
insulation • Insutube pipe insulation •
Wovenstone pipe insulation • Thermal
insulating tape • Insubestos felt • Fabricated
specialty insulation



write for illustrated Brochure

UNION ASBESTOS AND RUBBER COMPANY

332 SOUTH MICHIGAN AVENUE — Chicago 4, Illinois

AUTOMOBILE SALES

| | January 1955 |
|----------------------|---------------|
| Passenger Cars | 636,242 |
| Motor Trucks | 89,676 |
| Motor Coaches | 190 |
| | <hr/> 726,108 |

In January 1954, a total of 551,134 motor vehicles were sold.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

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Producers of
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and
FIBERIZED ASBESTOS
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Mines and Mills in Gila Co., Arizona

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ASBEST- & ERZIMPORT OSCAR H. RITTER K. G.

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Rissik Street, Johannesburg, South Africa

(Mines centered at Penge, Northern Transvaal)

An Associate Company of

THE CAPE ASBESTOS CO., Ltd.

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Amosite is a versatile fiber, ideal for rapid water release in wet-process filtration . . . as a reinforcement for asbestos-cement products, plastics, and rigid insulations . . . as an insulating medium. Relatively great fiber length and bulking give Amosite unique characteristics. For further information, contact the following Cape Asbestos Co. subsidiaries:



In the United States

NORTH AMERICAN ASBESTOS CORPORATION

Board of Trade Building, Chicago 4, Illinois

In Canada

CAPE ASBESTOS (Canada) Ltd.

200 Bloor Street East, Toronto, Ontario

PRODUCTION STATISTICS

CANADA

(Department of Mines, Province of Quebec)

Tons 2000 lbs.

Production for December 1954 68,597 tons
 Compared with December 1953 62,067 tons
 Dominion Production for December 1954 is 70,921 tons, a
 difference of 2,324 tons from the Quebec figure.

| By Grades: | Year 1954 | Year 1953 |
|--------------|-----------|-----------|
| Crude | 655 | 776 |
| Fibres | 296,887 | 299,716 |
| Shorts | 596,449 | 584,103 |
| | 893,991 | 884,595 |

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2000 lbs.

Production for October 1954 6,876.98 tons
 Valued at £518,688
 Production for October 1953 7,386.22 tons
 Valued at £444,615

Africa (Swaziland)

Production for December 1954 2,628 tons
 Production for January 1955 2,597 tons

Italy—According to a report from Assistant Attache H. M. Phelan, Rome, production of asbestos totaled 20,357 metric tons in 1953, as compared with 23,951 metric tons produced in 1952. (From Mineral Trade Notes, October 1954.)

WANTED

Established Distributor and Contractor of high and low temperature insulation in Western States, with profitable potentialities, desires additional capital from active or inactive party. Address: Box 3B-W, "ASBESTOS", 807 Western Saving Fund Bldg., Philadelphia 7, Pa.

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'Phone: BERMONDSEY 3864

Cables: CENBESTOS LONDON

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Asbestos Awaiting Processing

CAPE BLUE ASBESTOS

- HIGH TENSILE STRENGTH
- HIGH ACID RESISTANCE
- STRICT QUALITY CONTROL

DIRECT FROM THE MINES IN SOUTH AFRICA
OR FROM BUFFER STOCKS IN LONDON

We process to customers' requirements all types of Asbestos
ENQUIRIES WELCOMED FOR

CAPE BLUE • TRANSVAAL BLUE • AMOSITE • CHRYSOTILE ETC.

IMPORTS AND EXPORTS

Imports Into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries:

| | October 1954 |
|--------------------------|------------------|
| | Tons (2240 lbs.) |
| From Canada | 53,698 |
| Union of S. Africa | 1,703 |
| Rhodesia | 886 |
| Australia | 54 |
| Other Countries | 172 |
| | <hr/> 56,513 |
| Valued at | \$5,094,618 |

By Grades:

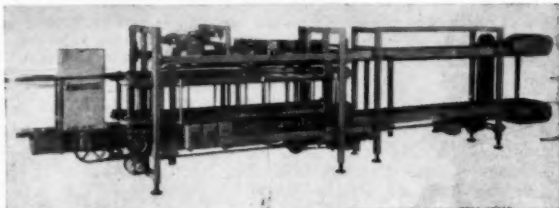
| | |
|---|--------------|
| Crude No. 1, Chrysotile, Rhodesia | 25 |
| Crude No. 2, Chrysotile, Rhodesia | 71 |
| Crude No. 2, Chrysotile, Other Countries | 3 |
| Crude, Other, Chrysotile, Rhodesia | 736 |
| Crude, Other, Chrysotile, Other Countries | 5 |
| Crude, Blue, Australia | 54 |
| Crude, Blue, Union of S. Africa | 584 |
| Crude, Amosite, Union of S. Africa | 1,119 |
| Textile Fibres, Chrysotile, Canada | 1,400 |
| Textile Fibres, Chrysotile, Rhodesia | 54 |
| Textile Fibres, Chrysotile, Other Countries .. | 62 |
| Shingle Fibres, Chrysotile, Canada | 5,836 |
| Paper Fibres, Chrysotile, Canada | 5,121 |
| Other Fibres, Chrysotile, Canada | 41,341 |
| Other Fibres, Chrysotile, Other Countries .. | 102 |
| | <hr/> 56,513 |

Manufactured Asbestos Goods:

| | October 1954 | |
|-----------------------------------|-----------------|-----------|
| | Quantity (lbs.) | Value |
| Asbestos Yarn, Canada | 15,059 | \$ 17,542 |
| United Kingdom | 35,275 | 34,938 |
| Asbestos Shingles (Impreg.) | 121,460 | 6,874 |

PACKOMATIC Shows the way to increased efficiency in your **BALE SEALING** operation.

- **ADJUSTABLE**—to the accepted range of **ASBESTOS** Bale Sizes.
- **AUTOMATIC**—can be furnished with or without tucking device.
- **NEW**—engineered with the most advanced electrical and mechanical features available.
- **STURDY**—built for efficient-trouble-free performance to give long years of continuous service—finest workmanship and materials.
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The Ruberoid Company
Flintkote Mines, Ltd.

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Your direct inquiry will receive prompt attention.

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T. M. REG. U. S. PAT. OFF.

PACKAGING MACHINERY

J. L. FERGUSON CO JOLIET ILL.

Chicago, New York, Boston, Philadelphia, Tampa,
Cleveland, Denver, San Francisco, Los Angeles,
Baltimore, Seattle, Portland, Dallas, New Orleans

| | | |
|-----------------------------------|-----------------|-----------------|
| Asbestos Shingles (Not Impreg.) | | |
| Canada..... | 1,717,358 | 103,992 |
| Other Countries..... | 5,550 | 279 |
| Asbestos Manufactures—Others..... | ..... | 2,598 |
| | <hr/> 1,894,802 | <hr/> \$166,223 |

Exports From U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

| | October 1954 | |
|-----------------------|------------------|----------------|
| | Tons (2240 lbs.) | Value |
| To: Europe | 92 | \$13,118 |
| South America | 13 | 2,100 |
| Other Countries | 60 | 4,450 |
| | <hr/> 165 | <hr/> \$19,668 |

Manufactured Asbestos Goods:

| | October 1954 | |
|--|-----------------|-------------------|
| | Quantity | Value |
| Asbestos Pipe Covg. & Cement | Lbs. 198,446 | \$ 34,283 |
| Asbestos Textiles & Yarn | Lbs. 43,452 | 43,340 |
| Asbestos Packing | Lbs. 204,383 | 165,873 |
| Asbestos Clutch Facings & Lining | No. 90,150 | 78,436 |
| Asbestos Bk. Lng. (Mld. & S. Mld.) | Ft. 163,852 | 59,969 |
| Asbestos Bk. Lng. (Woven) | Lin. Ft. 33,105 | 33,088 |
| Asbestos Brake Lining Sets | Lbs. 355,871 | 326,796 |
| Asbestos Construction Materials | Lbs. 3,225,766 | 297,403 |
| Asbestos Manufactures—Others ..... | ..... | 46,278 |
| | | <hr/> \$1,076,471 |

SITUATION WANTED

Estimator-Salesman, experienced reading plans, measuring jobs, pricing and handling commercial insulation jobs. Address: Box 3P-C, "ASBESTOS", 807 Western Saving Fund Bldg., Philadelphia 7, Pa.

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P. O. Box 1131, BREMEN, GERMANY



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REFINING CO. LTD.**
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PRODUCERS OF AUSTRALIAN RAW BLUE
ASBESTOS. MINES AT WITTENOOM, W.A.**

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France, Egypt, Great Britain, Holland,
India, Italy, Norway, Pakistan, Portugal,
Spain, Sweden, Switzerland.

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Australian Blue is an ideal fibre for asbestos cement and for purposes requiring good heat insulation and acid resistance. It possesses excellent spinning properties. Samples are available upon request.

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**Our experienced engineers and machinists offer the
industry entire machines built to deliver maximum
production.**

Your Inquiries Are Invited

1-51 Paterson Avenue

E. Rutherford, N. J.

Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

| | December 1954 | | Year 1954 | |
|-----------------------------------|---------------|-----------|--------------|------------|
| | Tons | | Tons | |
| | (2000) lbs.) | Value | (2000) lbs.) | Value |
| <i>Crude</i> | | | | |
| United States | 34 | \$ 25,644 | 304 | \$ 254,238 |
| United Kingdom ..... | ..... | ..... | 73 | 86,030 |
| South America ..... | ..... | ..... | ..... | ..... |
| Central America & Mexico ..... | ..... | ..... | 11 | 10,429 |
| European Countries | 18 | 15,225 | 220 | 202,546 |
| Other Countries | 17 | 14,126 | 34 | 25,097 |
| | 69 | \$ 54,995 | 641 | \$ 578,380 |

Milled

| | | | | |
|-----------------------------------|--------|-------------|---------|--------------|
| United States | 13,970 | \$2,449,057 | 150,816 | \$24,689,159 |
| United Kingdom | 1,945 | 403,114 | 25,058 | 5,153,004 |
| South America | 2,226 | 415,976 | 23,550 | 4,249,466 |
| Central America & Mexico | 1,135 | 177,356 | 4,960 | 767,471 |
| European Countries | 13,030 | 2,250,959 | 65,790 | 12,237,313 |
| Other Countries | 5,859 | 886,671 | 42,672 | 6,779,240 |
| | 38,165 | \$6,583,133 | 312,844 | \$53,875,653 |

Shorts

| | | | | |
|-----------------------------------|--------|-------------|---------|--------------|
| United States | 36,676 | \$1,749,964 | 482,666 | \$22,929,217 |
| United Kingdom | 3,105 | 122,427 | 33,613 | 1,336,130 |
| South America | 427 | 31,949 | 6,115 | 443,933 |
| Central America & Mexico | 92 | 5,260 | 837 | 41,256 |
| European Countries | 9,969 | 579,611 | 42,454 | 2,717,554 |
| Other Countries | 1,289 | 96,221 | 8,558 | 644,366 |
| | 51,558 | \$2,585,432 | 574,243 | \$28,112,456 |

Grand Total—Unmanufactured Asbestos.....

89,792 \$9,223,560 887,728 \$82,566,489

Manufactured Asbestos Goods:

| | | |
|-----------------------|------------|-------------|
| Brake Lining | \$ 49,983 | \$ 365,475 |
| Packing | 576 | 5,008 |
| Other Materials | 116,000 | 931,891 |
| | \$ 166,559 | \$1,302,374 |

List Plus Price Tables

Now available: Pipe Covering Net Price Tables for tables (0) Zero Plus Table 99 to two (2) times table 0, 1/2" to 14" Pipe. Size, 1" and 1 1/2" Thick. One hundred tables on six pages with cover. Price 75c each, three for \$2.00, post paid in the U. S. A. and Canada. K. L. Brown, 8910 River Ridge, Minneapolis 20, Minn.

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Wet machines with Auxiliaries for the production of 24" to 48" wide, flat or corrugated sheets in commercial lengths.

Fiberizing Equipment, Rotary Cutters, Wet and Dry Trimmers, Finishing and Texturing Machines.

Your inquiries are most welcome

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UNITED STATES RUBBER COMPANY

1230 Avenue of the Americas, New York 20, N. Y.



NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

- John H. Balch, Executive Vice President, Union Asbestos & Rubber Co., Chicago, Ill., March 22.
- Grady B. Gullledge, Director & General Manager, Apache Asbestos Mines, Inc., Owner and Manager, Pine Top Asbestos Mines, Globe, Arizona, March 23.
- George Barge, Treasurer, Keasbey & Mattison Company, Ambler, Pa., March 27.
- A. R. Fisher, President, Johns-Manville Corporation, New York City, March 27.
- J. T. Griffis, Vice President, Southern Asbestos Company, Charlotte, N. C., March 28.
- J. A. O'Brien, Vice President, Johns-Manville Corporation, New York City, March 28.
- Lord Elton, Director, The Cape Asbestos Company, London, England, March 29.
- F. V. S. Smith, Director & Secretary, Hodgson & Hodgson, Ltd., Carrington, England, March 29.
- W. C. Bowman, District Manager, The Philip Carey Mfg. Company, Phila., Pa., March 30.
- G. M. Williams, President, Russell Mfg. Company, Middletown, Conn., April 6.
- Herbert D. Harris, Asbestos Corporation of America, New York City, April 12.
- J. M. Weaver, Consultant, Raybestos-Manhattan, Inc., Manheim, Pa., April 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

Complete Plants for making ASBESTOS CEMENT PIPES

Socketed and Non-socketed,
Automatic Pipe Testing Machines — Precision Steel Mandrels
Plants for making Sheets,

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All Types

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Every Order Personally Inspected

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ASBESTOS CORPORATION LIMITED
Annual Report—1954

The Annual Report of Asbestos Corporation Limited has just reached us and an income for the year (ending December 31, 1954), after charging all expenses including provision for taxes and deferred tax credit but before providing for depreciation amounted to \$5,366,918.

Production of all grades of asbestos showed an increase of 7% by volume and 8% by value over the previous year. Operating results at all producing mines except Vimy Ridge showed an improvement and though overall costs were substantially higher, the unit cost per ton of finished product was reduced.

Development work at the Normandie Mine was carried out at a high rate during the year, and only a relatively small proportion of the pre-production development was unfinished at the end of the year. The large total of 5,311,350 cubic yards, equivalent to about 8,000,000 tons, of earth and barren rock has so far been removed from the mine; practically all within a two-year period.

At the King Mine where operations are underground for the most part, the modifications to the crusher house commenced in 1953 have been completed, and a pre-fabricated garage has been erected to house the trucks.

The development of the new ore body at Beaver progressed satisfactorily and 5,840 feet of new haulageway were completed. Stripping operations were well advanced at the year's end.

At the British-Canadian Mine improvements were confined to the extension of haulageways and minor alterations to the conveying, screening, and other apparatus in the mill.

Dwindling accessible ore reserves at the Vimy Ridge Mine discouraged further improvements at that property, and it is anticipated that operations at that mine will cease shortly after the commencement of full scale operations at the Normandie Mine.

RUBEROID TO ERECT NEW WAREHOUSE

The Ruberoid Co. has contracted with the Luria Engineering Company of Bethlehem, Pa., for a 28,000 square-foot standardized steel warehouse to be erected at the former's plant in St. Louis, Mo.

Erection of the structure, which will have two 60-foot clear spans to provide ample column-free storage space, is scheduled to be completed in April.

The rigid steel 120 x 200 foot framework and 20 x 100-foot steel-framed lean-to will be produced and erected by Luria, while the Ruberoid concern will supply its own corrugated asbestos covering, a four-foot-high concrete wall on one side and end, and nine 20-foot-wide special doors.

The warehouse's design will allow for expansion at one side and one end.

NOW, AS ALWAYS—

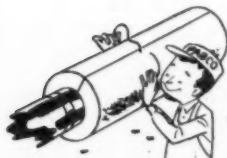


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Standard-
Modernized*



UNIFORM PRECISION

Dependable precision in heat insulation, to meet modern engineering demands! Pabco "Precision Molded" 85% Magnesia combines time-tested superiority with precision molding — close tolerances, controlled sizes, light weight, uniform texture!



SAVES MAN HOURS

Thus, Pabco is faster to apply! Easier to lift, quicker to cut and score, simpler to embed tie wires! You get Precision fit—pipe sizes and blocks molded to exact size!



PABCO PRODUCTS INC.

INSULATION DIVISION

San Francisco 19

New York 16

Manufacturers of Heat Insulation since 1920

**INSULATION DISTRIBUTOR-CONTRACTORS
NATIONAL ASSOCIATION, INC.**

The second general meeting of the INSULATION DISTRIBUTOR-CONTRACTORS NATIONAL ASSOCIATION, INC., was held February 17 and 18, 1955, at the Sheraton Hotel in Chicago. Over 100 contractors and manufacturers' representatives attended the two-day session to take part in the activities. This attendance was approximately four times that of the first general meeting held in Washington, D.C., in September of 1954. There seems little doubt but that the organization is well on the way toward maturity and effectiveness.

The meeting was opened Thursday morning by an address by Phil Olmen, President of Jamar-Olmen Company of Chicago. Mr. Olmen discussed the general problems faced by a national association that is in the formative stage. His experience in association affairs and his prominence in the insulation industry made his address both informative and interesting. The members received his remarks with such enthusiasm that he was subsequently elected a vice president of the organization.

A general discussion period followed on Thursday afternoon. Both contractors and manufacturers took part in this discussion on a variety of subjects of interest to all. The views and ideas of many of those present were expressed and much of value was obtained from the exchange.

The following officers were elected: *Leon E. Butler*, President, Achenbach & Butler, Inc., Philadelphia, Pa.; Vice Presidents: *Phil Olmen*, President, Jamar-Olmen Company, Chicago, Ill.; *K. M. Glasoe*, President, Plant Insulation Company, Los Angeles, California; Secretary-Treasurer: *Walter E. Campbell*, President, Walter E. Campbell Company, Washington, D. C.

The President elect immediately called a Board of Directors meeting and appointed the following committees: Membership, Budget, Manufacturers Relations, Labor Relations, and Site.

The Site Committee, composed of *Sam North* (North Brothers, Atlanta), *Lawrence T. Bennett* (A. H. Bennett Company, Minneapolis), and *Fred Siemers* (Achenbach & Butler, Inc., Philadelphia), recommended, and the Board accepted this recommendation, that the next meeting be held in Pittsburgh, September 22 and 23, 1955. Periodic announcements regarding the next meeting will appear in this magazine.

Manufacturers of both insulation materials and sundries continue to be invited to join as Associate Members. Seventeen manufacturers had representatives present to take part in such activities of the meeting that were open to them. Their interest and support were most gratifying. All persons on the Association's mailing list will be invited to the Pittsburgh meeting.

Antony Gibbs & Co., Inc.

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New York 6, New York

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ASBESTOS FIBRES

Offered by

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Norma Asbestos Mines

UNION CHRYSOTILE

Scottro Asbestos Mines

CAPE BLUE

Kuruman Cape Blue Asbestos

TRANSVAAL BLUE

Baboon Asbestos Co.

Springbok Asbestos Co.

CAREY—Annual Report

Net earnings of The Philip Carey Manufacturing and subsidiaries for the year ended December 31, 1954, were \$2,477,253, or \$3.00 per common share, compared with \$2,398,508, or \$2.90 per common share for 1953.

Dividends amounting to \$1,355,297 were distributed during the year, \$1.60 having been paid on each common share, and \$5.00 on each share of preferred.

Consolidated net sales for 1954 were \$54,751,170, compared with \$52,095,904 for 1953.

A new asphalt saturating machine was installed at their Perth Amboy, New Jersey, plant during the summer of 1954. This equipment has increased sales volume through the production of a specialty line of saturated roofing fabrics and building papers.

Near East Broughton, Quebec, where they have for many years mined and milled their asbestos, they have recently discovered a very large asbestos deposit. This property will add many years to their reserve supply of asbestos, thus assuring the continuation of their own source of fibre which has become such an important material in a large number of their manufactured products. Plans are now underway to construct on this new property a mill of the most modern design.

Their new warehouse at Toronto, Canada, was completed early in 1954. They are now able to render greatly improved customer service from a large stock of building materials shipped from their Lennoxville, Quebec, plant. This addition has substantially increased sales volume in this area.

AMERICAN BRAKE SHOE COMPANY

George R. Bason has been appointed assistant advertising manager of American Brake Shoe Company. With Brake Shoe since 1951, Mr. Bason was formerly technical editor of the company's external publication, "Metal Trends". An engineering graduate of North Carolina State College, Mr. Bason is secretary of the Industrial Publicity Association.

MOUNTBRIDGE EXPLORATION & INVESTMENT CO. (PTY.) LTD.

Lubraco House, C/r Nugget & Pritchard Streets,
Johannesburg. Box 4421. Cables "Montexin"

*South African and Rhodesian
Asbestos Fibres*

ENQUIRIES WELCOME

UNION ASBESTOS & RUBBER COMPANY

Heating & Cooling Division

Two round-trip tickets by air to Rome, Zurich, London and Paris, first prize in the Union Asbestos & Rubber Company's 1954 Heating and Cooling Division's sales contest, were presented to *John J. Kramer*, head of John J. Kramer and Associates of Dearborn, Michigan.

According to reports Mr. Kramer showed the greatest increase in 1954 over sales goals established by the Company.

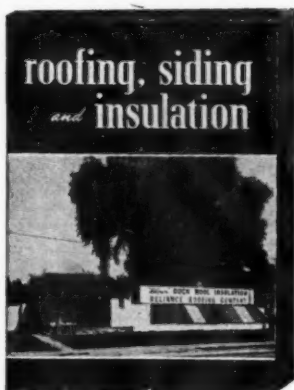
ASBESTOS FIBRES

ASBESTOS WASTE

Frank G. Ruggles Co. Inc.

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WAY....**

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roofing,
siding and
insulation
contractors!**

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New York 19, N. Y.

A.S.T.M.—COMMITTEE C-17—Asbestos-Cement Products

Further coverage in the field of asbestos-cement products was reported at the meeting of Committee C-17 on Asbestos-Cement Products on February 3 during ASTM. Committee Week in Cincinnati, Ohio. The committee has planned to develop a specification for asbestos-cement sewer pipe as a companion to the existing specification for asbestos-cement pressure pipe (C 296 T). A method for determining the degree of "cure" is being considered, along with continued studies on procedure for measuring handleability and organic content of asbestos-cement products.

Two interesting talks were presented at a committee meeting, dealing with the two basic ingredients in asbestos-cement products. A talk was presented on asbestos, citing the various basic tests and characteristics which are required to make it suitable for use in asbestos-cement products. The second paper reviewed cement with reference to the special tests which are needed to evaluate this material as a suitable ingredient in these products.

Officers of Committee C-17 are: Chairman, D. Wolochow, National Research Council of Canada, Ottawa, Canada; Secretary, C. C. Kelsey, Asbestos-Cement Products Association, New York, N. Y.

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THE RUBEROID CO.
Annual Report

The Ruberoid Co. reported net sales of \$76,423,584 for the year ended December 31, 1954, the highest in the company's 68-year history. In 1953, sales totaled \$74,483,553.

Net earnings after taxes were \$4,628,746, or \$3.19 per share, compared with \$4,576,073, or \$3.25 per share in 1953. In both years the shares represent the average number outstanding during the year after adjusting for a two-for-one stock split effected May 5, 1954, and for stock dividends of 2½% distributed in 1954 and 5% in 1953.

Provisions for federal taxes on income were \$4,231,740, or 48% of earnings, compared with \$5,360,510, or 54% in 1953.

In discussing the outlook for the company, Herbert Abraham, Chairman, and Stanley Woodward, President, noted that government surveys indicate a 7% increase in new construction expenditures for 1955.

Asbestos Exploration

Mine Development

WILLIAM B. MILLAR

Consulting Geologist

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Producers of Low Iron Chrysotile
Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

LEHON TO BECOME SUBSIDIARY OF CAREY

It has recently been announced by the Carey Company and The Lehon Company, Chicago, Illinois, manufacturers of the well-known Mule-Hide brand of asphalt roofings, roof coatings and other felt products, that Lehon will become a subsidiary of Carey on February 28, 1955.

It is planned to continue the operations of Lehon as a separate company under its present personnel and policies. The well established Mule-Hide line, which has an excellent reputation in the building trade, will be retained.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

| | Par | February 1955 | | |
|------------------------------|-----|---------------|--------|---------|
| | | Low | High | Last |
| Amer. Br. Shoe (Com)..... | np | 35½ | 36¾ | 35¾ |
| Amer. Br. Shoe (Pfd)..... | 100 | 101½ | 103 | 102½ |
| Armst. Ck. (Com)..... | np | 85¾ | 90¾ | 89½ |
| Armst. Ck. (Pfd)..... | np | 99 | 101 | 99 |
| Armst. Ck. (Conv. Pfd)..... | np | 170 | 180¾ | 177½ |
| Asb. Corp. (Com)..... | np | 32½ | 39 | 34 |
| Carey (Com)..... | 10 | 30¼ | 32½ | 31¾ |
| Cassiar Asb. Corp. | np | \$7.75 | \$8.50 | \$8.15 |
| Celotex (Com)..... | np | 28 | 31½ | 30¾ |
| Celotex (Pfd)..... | 20 | 19½ | 19¾ | 19¾ |
| Certainteed (Com)..... | 1 | 25¾ | 28¾ | 27¾ |
| Dominion Asb. Mines | 1 | \$.15 | \$.20 | \$.15½ |
| Flintkote (Com)..... | np | 39¾ | 46½ | 43¾ |
| Flintkote (Pfd)..... | np | 102¼ | 103¼ | 102½ |
| Johns-Manville (Com)..... | np | 84½ | 97 | 90¾ |
| Natl. Gypsum (Com)..... | 1 | 48¾ | 50¾ | 50¼ |
| Natl. Gypsum (Pfd)..... | np | 103½ | 104½ | 104½ |
| Pabco Products (Com)..... | np | 23¾ | 26½ | 24¾ |
| Pabco Products (Pfd)..... | 100 | 96 | 98 | 97 |
| Ray-Man (Com)..... | np | 47 | 51¼ | 50¾ |
| Ruberoid (Com)..... | 1 | 44½ | 47¾ | 47¾ |
| Thermoid (Com)..... | 1 | 8¾ | 9 | 8¾ |
| Thermoid (Pfd)..... | 50 | 44 | 45 | 44 |
| Union Asb. & Rub. (Com)..... | 5 | 9½ | 10¾ | 9¾ |
| United Asb. (Com)..... | 1 | \$5.75 | \$6.20 | \$5.35 |
| U. S. Gypsum (Com)..... | 20 | 219 | 235 | 232¼ |
| U. S. Gypsum (Pfd)..... | 100 | 180 | 184½ | 183½ |
| U. S. Rubber (Com)..... | 5 | 40¾ | * 44¾ | 41¾ |
| U. S. Rubber (Pfd)..... | 100 | 159½ | 163 | 163 |

T. L. P. FARTHING PASSES AWAY

Former Director of Cape

The death is announced in Johannesburg on February 25th of T. L. P. Farthing who retired last year as Mines Director of Cape Asbestos South Africa (Pty) Limited.

Mr. Farthing, who spent many years on the gold mines in Johannesburg, joined Egnep Ltd. as Underground Manager in June 1937. He was well known to many of their home and overseas friends, who had the opportunity of visiting their Amosite and Blue mines in South Africa and they will remember the hospitality and enthusiasm with which he welcomed them. After joining Egnep Ltd. in 1937, he became Manager at Penge, a position which he held from April 1, 1946 until taking over the management at Koegas in May 1950, when he was appointed to the Boards of Cape Asbestos South Africa (Pty) Ltd., Egnep Ltd. and Cape Blue Mines (Pty) Ltd. At Koegas he spent two years reorganizing Cape Blue Mines' activities, from there joining the Johannesburg office as Mines Director until his retirement at the end of 1954.

CURRENT RANGE OF PRICE

As of March 10, 1955

| Arizona— | Per Ton of 2,000 lbs., f.o.b. Globe, Arizona |
|--|---|
| No. 1 Crude (soft)..... | \$1,600.00 to \$1,700.00 |
| No. 2 Crude (soft)..... | 1,000.00 to 1,050.00 |
| No. 3 Crude (soft)..... | 450.00 to 500.00 |
| Filter Fibre (soft)..... | 250.00 to 450.00 |
| No. 1 Crude (semi-soft)..... | 1,200 to 1,500.00 |
| No. 2 Crude (semi-soft)..... | 900.00 |
| No. 3 Crude (semi-soft)..... | 400.00 |
| Canada— | Per Ton 2000 lbs. f.o.b. Mine |
| Group No. 1 (Crude No. 1)..... | \$1,100.00 to \$1,500.00 |
| Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry..... | 500.00 to 1,000.00 |
| Group No. 3 (Spinning Fibre)..... | 300.00 to 525.00 |
| Group No. 4 (Shingle Fibre)..... | 150.00 to 200.00 |
| Group No. 5 (Paper Fibre)..... | 100.00 to 140.00 |
| Group No. 6 (Waste, Stucco or Plaster)..... | 77.00 |
| Group No. 7 (Refuse or Shorts)..... | 35.00 to 70.00 |
| Vermont— | Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt. |
| Group No. 3 (Spinning & Filtering)..... | \$ 321.00 to \$ 348.00 |
| Group No. 4 (Shingle Fibre)..... | 156.00 to 173.00 |
| Group No. 5 (Paper Fibre)..... | 109.00 to 132.00 |
| Group No. 6 (Waste, Stucco or Plaster)..... | 77.00 |
| Group No. 7 (Refuse or Shorts)..... | 37.00 to 68.50 |

PROMOTION AT ARMSTRONG CORK CO.

Dr. L. H. Dunlap has been promoted to Manager of the Chemistry Department of Armstrong Cork Company's Research and Development Center. He succeeds Dr. R. J. Pieper, former Manager of the Department, who retired on January 31 after 34 years of service.

Dr. Dunlap joined the Armstrong organization in 1939 as a chemist after having received A.B., B.S. and M.A. Degrees in Chemistry from the University of Missouri and a Ph.D. in Organic Chemistry from the University of Illinois.

LARGE ASBESTOS DEPOSIT NEAR EAST BROUGHTON, QUEBEC.

The Philip Carey Mfg. Company recently announced the discovery of a very large asbestos deposit near East Broughton, Quebec. Through the Quebec Asbestos Corporation, a wholly-owned Carey subsidiary, \$7,500,000 will be expended to develop mining and mill operations.

The new ore body will be called the Carey mine and is the result of an intense geological exploration headed by Canadian vice president, E. A. Boadway. Type of asbestos fibre is comparable to that now being produced by the other mine at East Broughton, but tonnage will be much greater.

CHAS. S. WOOD & COMPANY Change of Address

After 40 years at 27 Lombardy Place, Newark, N. J., the Chas. S. Wood & Company, Engineers, Distributors, Contractors for Acoustic and Thermal Insulation, have moved their offices and warehouse to 88 Main Street, West Orange, N. J. Their New York office will continue at 18 East 41st Street, New York 17, N. Y.

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THE TWELVE ESTIMATING TABLES

The Twelve Estimating Tables, with Chart, convenient in figuring flange fittings and other areas, is \$1.00 per set.

These tables have been found very useful by estimators in figuring areas, but since we have not for some time published the detailed list, it occurred to us that many would like to know exactly what the tables cover, and order them before the fall work begins. Following is the list.

Sq. Ft. Areas of Pipe Covering.

Mean Sq. Ft. Areas Standard Screwed Fittings.

Mean Area Standard Weight Flanged Fittings.

Standard Weight Flange Areas, Permanent Type.

Standard Weight Flange Areas, Removable Type.

Figuring Hair Felt, 1", 1½", 2".

Anti-Frost Insulation.

Cork Pipe Covering, Outside Area in Sq. Ft.

Ice Water Thick Cork Moulded Fittings Screwed,
Outside Area in Sq. Ft.

Brine Thickness Cork Moulded Fittings, Screwed,
Outside Area in Sq. Ft.

Special Thickness Cork Moulded Fittings, Screwed,
Outside Area in Sq. Ft.

Dusts and Flue Perimeters.

The chart gives an easy way to figure Curved
Cylindrical Surfaces.

The tables are printed on paper which will wear well under handling. Orders can be filled immediately upon receipt, write Asbestos 807 Western Savings Fund Bldg., Philadelphia 7, Pa.

| | |
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BOOK LIST

- The Asbestos Factbook**, 16 pages: Information in comment form on origin, facts, locations, uses of analyses, qualities, 25c per copy.
- Asbestos Mining Methods**. By C. V. Smith. (Reprint) 16 pages 25c per copy.
- Milling Asbestos**. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.
- Recovery of Raw Asbestos**. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.
- Canadian Chrysotile Asbestos Classification**. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages 25c per copy.
- Processing Asbestos Fibres**. 8 pages. (Reprint). 25c per copy
- Tests for Cotton Content**. 4 pages (Reprint). Describing several methods of testing asbestos textile for cotton content. 10c per copy.
- Chart—Dollars Cost of Uninsulated Pipe**. (Reprint), 20c each
- Brake Linings of Various Types**. By R. T. Halstead, (Reprint) (12 pages) from August, September and October 1949 "ASBESTOS". Price 25c per copy.
- Twelve Estimating Tables**, with Chart. Convenient in figuring flange fittings and other areas, \$1.00 per set.
- Manual of Unit Prices**. For figuring pipe covering and blocks 90c per single copy postpaid. Discount in quantities of 6 or more, postage billed.
- Order any of the above from "ASBESTOS," 807 Western Saving Fund Bldg., Philadelphia 7, Pa. Payment should accompany order.



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